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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/787,016	02/24/2004	Yuzuru Suzuki	31647-7	3960
20350 7590 11/21/2007 TOWNSEND AND TOWNSEND AND CREW, LLP TWO EMBARCADERO CENTER EIGHTH FLOOR SAN FRANCISCO, CA 94111-3834			EXAMINER	
			TAMAI, KARL I	
			ART UNIT	PAPER NUMBER
	·		2834	
			1	
	•		MAIL DATE	DELIVERY MODE
		11/21/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applicant(s)	<u>7 </u>
•	Application No.	Applicant(s)	
	10/787,016	SUZUKI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Tamai I.E. Karl	2834	
The MAILING DATE of this communication Period for Reply	appears on the cover sneet wit	1 the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a re . riod will apply and will expire SIX (6) MONT ratute, cause the application to become ABA	ATION. ply be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 1 2a)□ This action is FINAL. 2b)⊠ 3)□ Since this application is in condition for all closed in accordance with the practice und	This action is non-final. wance except for formal matte	•	-
Disposition of Claims			
4) Claim(s) 1-5 and 9-12 is/are pending in the 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1-5 and 9-12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction are	drawn from consideration.		
<u> </u>			
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) ☐		ov the Evaminer	
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the co	rrection is required if the drawing(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for force a) All b) Some * c) None of: 1. Certified copies of the priority document of the certified copies of the priority document of the certified copies of the application from the International But * See the attached detailed Office action for a second of the certified copies of the application from the International But * See the attached detailed Office action for a second of the certified copies of the application from the International But * See the attached detailed Office action for a second of the certified copies of the attached detailed Office action for a second of the certified copies of the certified copies of the attached detailed Office action for a second of the certified copies of the certified co	nents have been received. nents have been received in Appriority documents have been priority documents have been preau (PCT Rule 17.2(a)).	oplication No received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413) VMail Date	
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/1/07, 7//09/07.		formal Patent Application	

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-5, 9, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshida (JP 10-066294) and Masutani (JP 61-109437) and Krauth (JP 10-271753). Yoshida (JP 10-066294) teaches a cylindrical motor housing 11 with a front plate 13 and rear plate 12, with a thrust member that can be formed by stamping and bending with arms 32, 33 connected to the plate 31 by radially extending arms. Yoshida teaches the worm gearing 18 on the shaft 15 which extends from the front endplate 13. Yoshida does not teach a cylindrical hollow stator, detachable arms extending on the sides of the motor body, the distal end being bent inwardly to fit into cutouts on the front endplate, or a hump on the thrust bearing, or the thrust bearing fixedly attached to the motor body. Masutani teaches a hollow cylindrical stator 6, 10. Masutani teaches the mounting for the thrust bearing having detachable arms 4 that extend on the sides of the motor body 11 or the distal end being bent inwardly to fit into cutouts on the front endplate 17 (see figure 1). Krauth teaches a hump the thrust bearing in axial contact with the end of the shaft for adjusting the thrust bearing. It would have been obvious to a person of ordinary skill in the art at the

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time of the invention to construct the motor of Yoshida with arms extending on the sides of the motor body and the distal end being bent inwardly to fit into

entire stator rather than just the rear plate, as shown in Masutani, and with the

cutouts on the front endplate to allow the thrust forces to be absorbed by the

hollow cylindrical stator of Masutani because Yoshida suggests a hollow

cylindrical stator to fit in the cylindrical housing 11, and with the hump on the

thrust bearing for adjusting the bearing as taught by Krauth.

With respect to claim 5, Krauth teaches the thrust hump is integrally/fixedly formed with housing. It would have been obvious to one of ordinary skill in the art at the time of the invention to fixedly attach the arm segments of Yoshida to reducing assembly time as taught by Krauth and since it has been held that "the use of a one piece construction...would be merely a matter of obvious engineering choice." (In re Larson, 340 F.2d 965, 968, 144 USPQ 347, 349 (CCPA 1965)).

3. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshida (JP 10-066294) and Masutani (JP 61-109437) and Krauth (JP 10-271753), in further view of Ueno et al. (Ueno)(US 5811903). Yoshida, Masutani and Krauth teach every aspect of the invention except embossed or recessed. Ueno teaches that the motor body has, at the outer surface thereof, an embossed (as seen in Fig. 13) or recessed guiding mechanism (as seen in Fig. 14), to which portions of the thrust member are fitted. It would have been obvious to a person of ordinary skill in the art at the time of

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the invention to construct the motor of Yoshida, Masutani, and Krauth with the embossed or recessed guides of Ueno to maintain the positioning of the thrust bearing, as shown in Ueno.

Response to Arguments

- 4. Applicant's arguments with respect to claims 1-5 and 9-12 have been considered but are moot in view of the new grounds of rejection.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl Tamai at (571) 272 2036.

The examiner can be normally contacted on Monday through Friday from 8:00 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Darren Schuberg, can be reached at (571) 272 - 2044. The facsimile number for the Group is (571) 273 - 8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Karl I Tamai PRIMARY PATENT EXAMINER November 15, 2007